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PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P33313-P0	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/JP2004/012904	International filing date (<i>day/month/year</i>) 31 August 2004	Priority date (<i>day/month/year</i>) 22 September 2003
International Patent Classification (IPC) or national classification and IPC Int. Cl. ⁷ H01L27/04, 21/82, 21/66		
Applicant Matsushita Electric Industrial Co., Ltd.		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 4 sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising:
 - a ☒ (*sent to the applicant and to the International Bureau*) a total of 3 sheets, as follows:
 - ☒ sheets of the description, claims and /or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).

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4. This report contains indications relating to the following items:

- ☒ I Basis of the report
- ☐ II Priority
- ☐ III Non-establishment of opinion with regard to novelty, inventive step or industrial applicability
- ☐ IV Lack of unity of invention
- ☒ V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ VI Certain documents cited
- ☐ VII Certain defects in the international application
- ☒ VIII Certain observations on the international application

Date of submission of the demand 25 February 2005	Date of completion of this report 26 September 2005
Name and mailing address of the IPEA/JIP Japanese Patent Office	Authorized officer
Facsimile No.	Telephone No.

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/012904

I. Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

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2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

☒ the description:
pages 1, 3-6, as originally filed/furnished
pages 2, 2/1, received by this Authority on 25 February 2005

☒ the claims:
Nos. 2-4, as originally filed/furnished
Nos. 1, received by this Authority on 25 February 2005

☒ the drawings:
pages 1-8, as originally filed/furnished

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TRANSLATION of Form PCT/IPEA409**INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**International application No.
PCT/JP2004/012904**V. Reasoned statement under Rule 12 (PCT Article 35(2)) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement****1. STATEMENT**

Novelty (N)	Claims 1-4	YES
	Claims NONE	NO
Inventive Step(IS)	Claims 1-4	YES
	Claims NONE	NO
Industrial Applicability (IA)	Claims 1-4	YES
	Claims NONE	NO

2. CITATIONS AND EXPLANATIONS (Rule70.7)

Literature 1: JP 2003-124274 A (Matsushita Electric Industrial Co.,Ltd.), 2003.04.25, whole text, whole figures, & US 2003/0032263 A1, whole text, whole figures, & CN 1405867 A & KR 3014637 A & TW 558772 B

Literature 2: JP 7-37943 A (Tokyo Electron Co.,Ltd.), 1995.02.07, paragraph [0004]

Literature 3: JP 2002-22809 A (Seiko Epson Co.,Ltd.), 2002.01.23, paragraphs [0023]-[0026], figure 2

The inventions relating to Claims 1-4 are disclosed in none of the literatures cited in the International Search Report, and therefore, the inventions are not obvious to those skilled in the art.

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International application No.
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VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claim 2 is not sufficiently backed up by the specification. Relating to Claim 2, there is no concrete description in the specification as to which pads are connected to each other by a bump, and it is not clear as to whether merely adjacent pads are connected to each other by a bump.